



**NEW ENGLAND
COMMON ASSESSMENT PROGRAM**

Student Practice Test Booklet

Grade 5

Mathematics

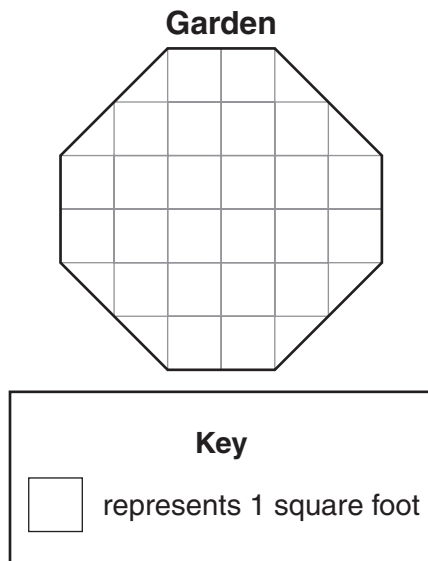
Student Name: _____

School Name: _____

Mathematics—Session 1 (Non-Calculator)

Answer questions 1 through 4 on page 2.

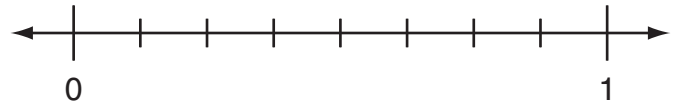
- ❶ The picture below shows the shape of a garden.



What is the area of the garden?

- A. 24 square feet
- B. 28 square feet
- C. 32 square feet
- D. 36 square feet

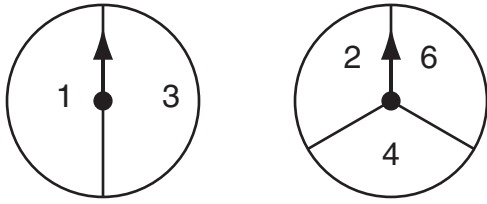
- ❷ Part of a number line is shown below.



Which list has the fractions in order from **least to greatest**?

- A. $\frac{3}{8}, \frac{1}{2}, \frac{3}{4}, \frac{7}{8}$
- B. $\frac{3}{8}, \frac{7}{8}, \frac{1}{2}, \frac{3}{4}$
- C. $\frac{1}{2}, \frac{3}{8}, \frac{3}{4}, \frac{7}{8}$
- D. $\frac{1}{2}, \frac{3}{4}, \frac{3}{8}, \frac{7}{8}$

- 3 Mary has these two spinners.



She spins each arrow once and writes down the sum of the two numbers. How many **different** sums are possible?

- A. 2
- B. 3
- C. 4
- D. 5

- 4 The \triangle and \square are different numbers that make this sentence true.

$$\triangle \times 8 = \square$$

Which other number sentence must be true?

- A. $\square \div 8 = \triangle$
- B. $8 \div \square = \triangle$
- C. $\triangle \div \square = 8$
- D. $8 \div \triangle = \square$

Answer question 5 on page 2.

- ⑤ Draw a rectangle in your Student Answer Booklet. On your drawing use a dotted line to show where to divide the rectangle into one triangle and one trapezoid.

Answer question 6 on page 2.

- ⑥ Nathan, Alicia, and Taylor each ride to school on a bike.
- Nathan rides his bike m miles.
 - Alicia rides her bike 3 times as many miles as Nathan does.
 - Taylor rides his bike 4 more miles than Nathan does.
- a. Use m to write an expression for the number of miles Alicia rides her bike.
- b. Use m to write an expression for the number of miles Taylor rides his bike.

Answer question 7 on page 2.

- ⑦ Look at this number sentence.

$$747 = 22 \text{ tens} + \square \text{ hundreds} + \triangle \text{ ones.}$$

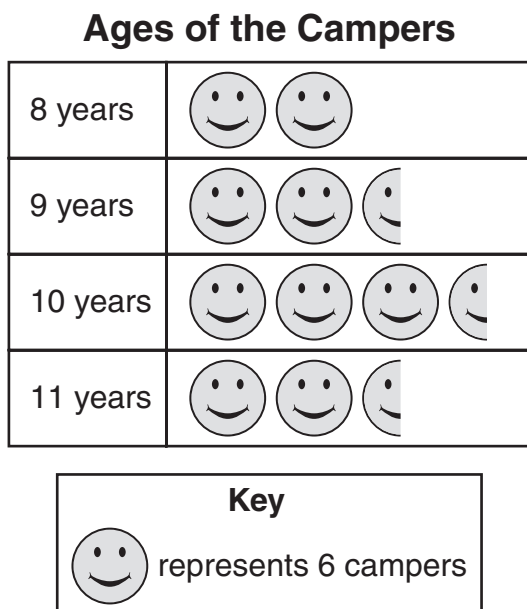
Find one number for \square and one number for \triangle that make the number sentence true. Show your work or explain how you know.



Mathematics—Session 2 (Calculator)

Answer questions 8 through 11 on page 3.

- 8 The pictograph below shows the ages of the campers at Camp Fairweather.



What is the total number of campers?

- A. 54
- B. 60
- C. 63
- D. 72

- 9 Which expression is equivalent to 12,000?

- A. 10 thousands + 12 hundreds
- B. 11 thousands + 10 hundreds
- C. 1 thousand + 1 hundred + 10 tens
- D. 1 thousand + 10 hundreds + 10 tens

- 10 The chart below shows the amount of money Meg will collect in a walkathon based on the number of miles she walks.

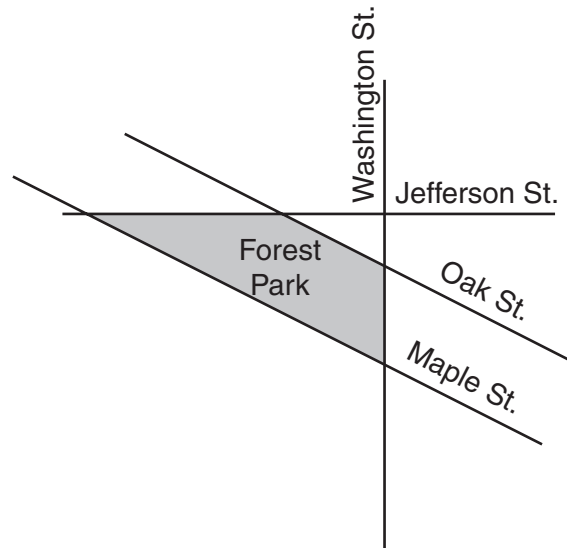
Walkathon Chart

Miles	Money Collected
2	\$26
4	\$34
6	\$42
8	\$50
10	\$58

The pattern in the chart continues. Meg collected \$74 in the walkathon. How many miles did Meg walk?

- A. 12
- B. 14
- C. 16
- D. 18

- 11 In the map below, Maple Street and Oak Street are parallel.

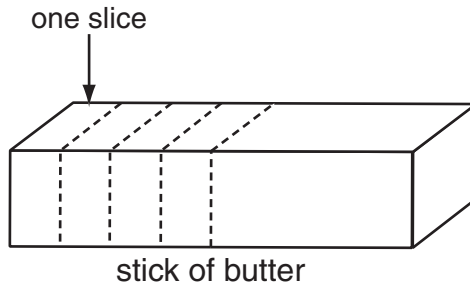


What is the shape of Forest Park?

- A. a square
- B. a rectangle
- C. a rhombus
- D. a trapezoid

Answer question 12 on page 3.

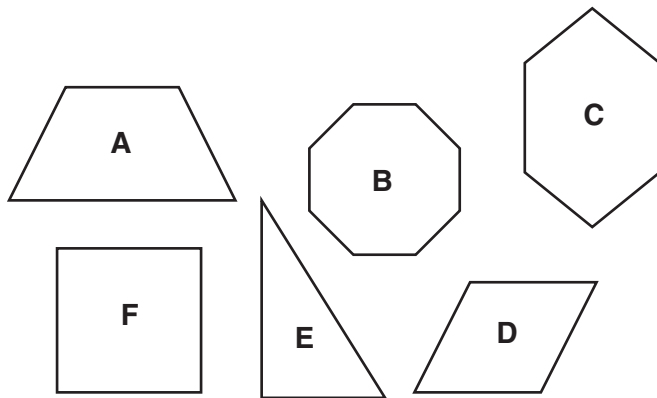
- 12 A baker cut a stick of butter in half. Then he cut one of the halves into 4 equal slices, as shown below.



What fraction of the stick of butter is one slice?

Answer question 13 on page 3.

- 13** Mr. Grimaldi asked his class to identify a mystery shape from these shapes.



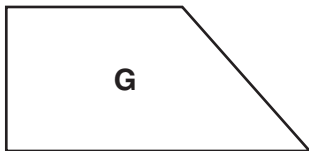
He gave the class these two clues.

Clue 1: The mystery shape has fewer than 5 sides.

Clue 2: The mystery shape does **not** have any 90° angles.

- Using the clues, the class determined that the mystery shape is one of two shapes. What are those two shapes?
- Pick one shape you identified in part a. What additional clue could Mr. Grimaldi give as Clue 3 that would identify **only** that shape as the mystery shape? Explain your reasoning.

Later, Mr. Grimaldi added this shape to the 6 shapes above.



- Write one or more clues that could identify this new shape as the only mystery shape.



